

Package ‘TransOmicsData’

September 9, 2025

Title A collection of trans-omics datasets across various biological systems

Version 1.4.0

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Description Contains a collection of trans-omics datasets generated using various sequencing technologies such as RNA-seq, Mass spectrometry and ChIP-seq. Modalities include the bulk profiling of the phosphoproteome, proteome, transcriptome and epigenome. Data reflects the timecourses of different developmental systems from the mouse or human.

Imports S4Vectors, utils

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BugReports <https://support.bioconductor.org/t/TransOmicsData>

URL <https://github.com/PYangLab/TransOmicsData>

VignetteBuilder knitr

Suggests BiocStyle, knitr, rmarkdown, RefManageR, sessioninfo, testthat, ExperimentHub

biocViews ExperimentHub, MassSpectrometryData, RNASeqData, ChIPSeqData, Tissue, SequencingData

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LazyData false

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RoxygenNote 7.3.1

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listDatasets	List all datasets
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Description

This lists the summary information for all available datasets in the **TransOmicsData** package.

Usage

```
listDatasets()
```

Details

This package contains datasets spanning various biological contexts such as in vitro embryonic and tissue-specific development in mouse and human extracted from different sequencing technologies.

Value

- A [DataFrame](#), containing the following fields
- Title, short name of this data.
 - Description, description of the data.
 - Omics, omic layers profiled in the data.
 - Species, species of the data.
 - RDataPath, the corresponding rds files in this package.

Author(s)

Carissa Chen

Examples

```
listDatasets()
```

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